

1. Use `pwd`, `ls`, `cd` to explore the file system and display current location.  
Sol:

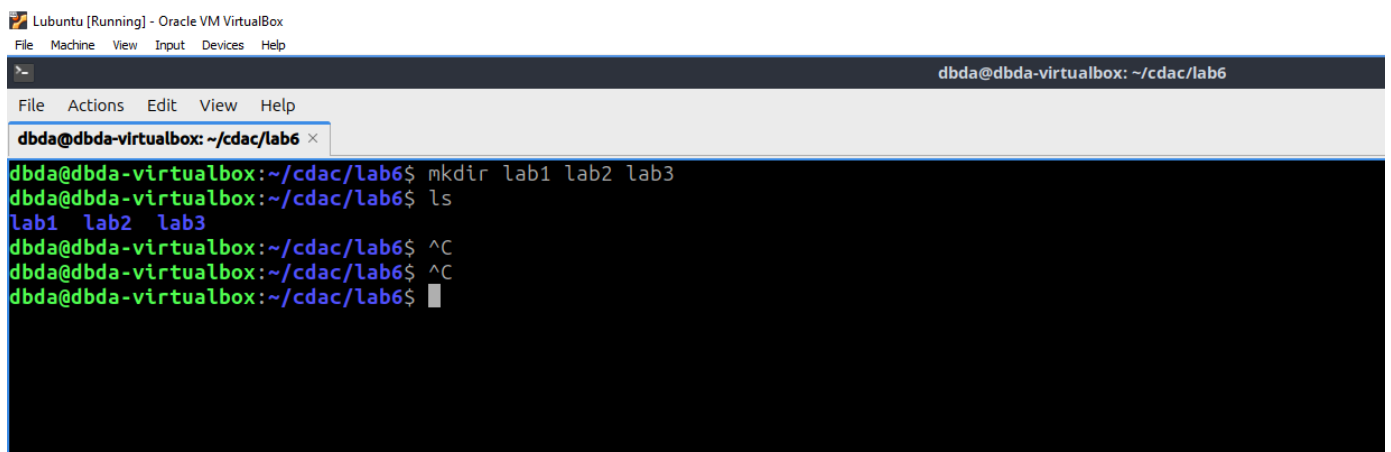
```
dbda@dbda-virtualbox:~$ pwd
/home/dbda
dbda@dbda-virtualbox:~$ ls
cdac Desktop Documents Downloads Music one Pictures Public shell_scripts
shell_scripts snap sorted.txt Templates Videos ystemd
dbda@dbda-virtualbox:~$ cd cdac
dbda@dbda-virtualbox:~/cdac$
```



The screenshot shows a terminal window titled "dbda@dbda-virtualbox: ~/cdac". The terminal output matches the commands and results shown in the text block above, including the directory listing: cdac Desktop Documents Downloads Music one Pictures Public shell\_scripts shell\_scripts snap sorted.txt Templates Videos ystemd.

2. Create directories `lab1/lab2/lab3` using one command.  
Sol:

```
dbda@dbda-virtualbox:~/cdac/lab6$ mkdir lab1 lab2 lab3
dbda@dbda-virtualbox:~/cdac/lab6$ ls
lab1 lab2 lab3
dbda@dbda-virtualbox:~/cdac/lab6$
```

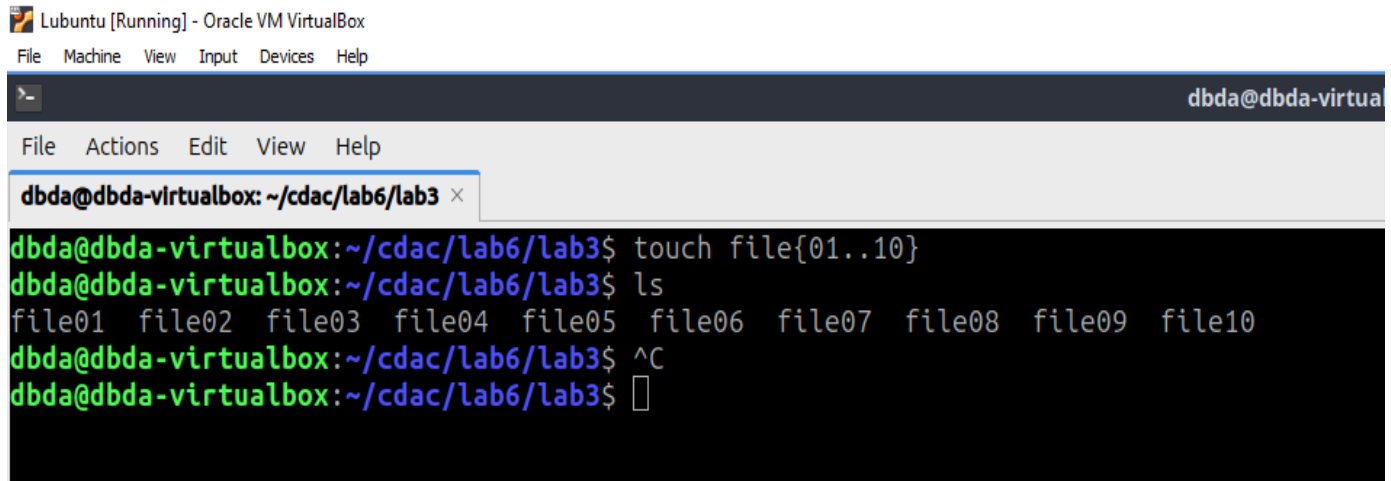


The screenshot shows a terminal window titled "dbda@dbda-virtualbox: ~/cdac/lab6". The terminal output shows the successful execution of the mkdir command to create lab1, lab2, and lab3, followed by the ls command which lists these three directories.

3. Create 10 files (`file1` to `file10`) inside `lab3` using one command.

Sol:

```
dbda@dbda-virtualbox:~/cdac/lab6/lab3$ touch file{01..10}
dbda@dbda-virtualbox:~/cdac/lab6/lab3$ ls
file01 file02 file03 file04 file05 file06 file07 file08 file09 file10
dbda@dbda-virtualbox:~/cdac/lab6/lab3$
```

A screenshot of a terminal window titled "Lubuntu [Running] - Oracle VM VirtualBox". The window has a menu bar with "File", "Machine", "View", "Input", "Devices", and "Help". Below the menu bar is a terminal window with a title bar "dbda@dbda-virtualbox: ~/cdac/lab6/lab3 x". The terminal shows the following commands and output:

```
dbda@dbda-virtualbox:~/cdac/lab6/lab3$ touch file{01..10}
dbda@dbda-virtualbox:~/cdac/lab6/lab3$ ls
file01 file02 file03 file04 file05 file06 file07 file08 file09 file10
dbda@dbda-virtualbox:~/cdac/lab6/lab3$ ^C
dbda@dbda-virtualbox:~/cdac/lab6/lab3$
```

4. Display who is logged in with `who`, and the current user with `whoami`

Sol:

```
dbda@dbda-virtualbox:~/cdac/lab6/lab3$ who
dbda  tty2      2025-08-29 09:09 (:0)
dbda@dbda-virtualbox:~/cdac/lab6/lab3$ whoami
dbda
dbda@dbda-virtualbox:~/cdac/lab6/lab3$ ^C
dbda@dbda-virtualbox:~/cdac/lab6/lab3$
```

```
Lubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

dbda@dbda-virtualbox: ~/cdac/lab6/lab3 x

dbda@dbda-virtualbox:~/cdac/lab6/lab3$ who
dbda      tty2          2025-08-29 09:09 (:0)
dbda@dbda-virtualbox:~/cdac/lab6/lab3$ whoami
dbda
dbda@dbda-virtualbox:~/cdac/lab6/lab3$ ^C
dbda@dbda-virtualbox:~/cdac/lab6/lab3$
```

5. Use `ps` to list your processes and `kill` to terminate one  
Sol:

```
dbda@dbda-virtualbox:~/cdac/lab6/lab3$ sleep 1000 &
[1] 2188
dbda@dbda-virtualbox:~/cdac/lab6/lab3$ ps
  PID TTY          TIME CMD
 1739 pts/0    00:00:00 bash
 2188 pts/0    00:00:00 sleep
 2189 pts/0    00:00:00 ps
dbda@dbda-virtualbox:~/cdac/lab6/lab3$ kill 2188
dbda@dbda-virtualbox:~/cdac/lab6/lab3$ ps
  PID TTY          TIME CMD
 1739 pts/0    00:00:00 bash
 2190 pts/0    00:00:00 ps
[1]+  Terminated      sleep 1000
dbda@dbda-virtualbox:~/cdac/lab6/lab3$ ^C
dbda@dbda-virtualbox:~/cdac/lab6/lab3$
```

```
Lubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

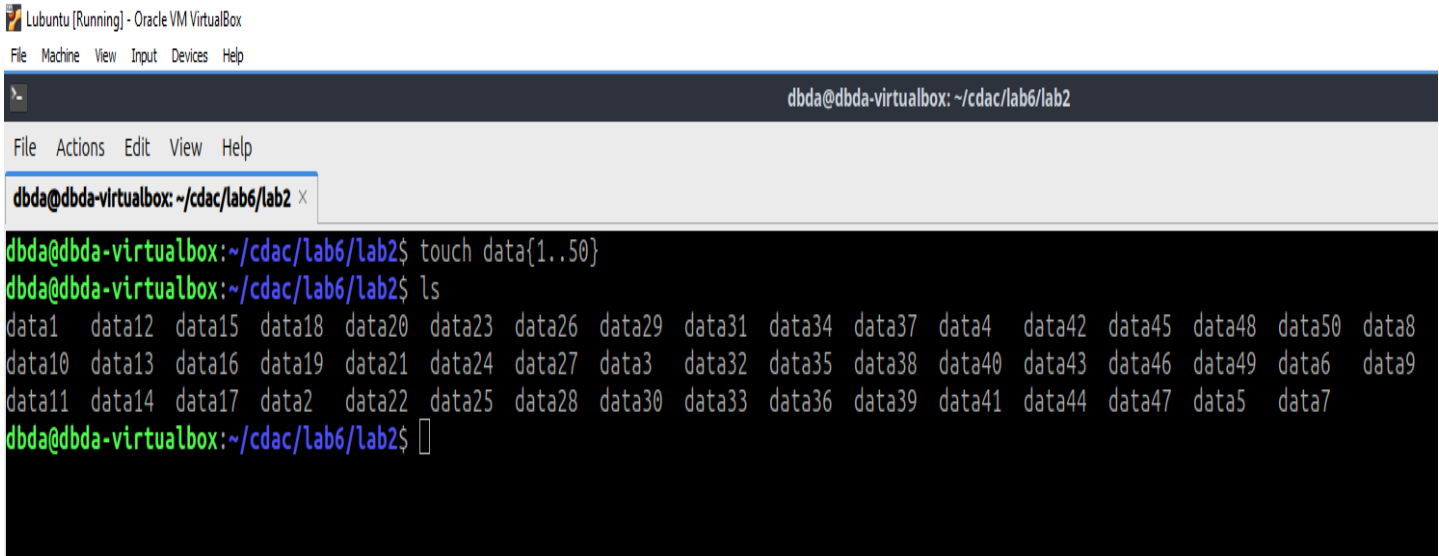
dbda@dbda-virtualbox: ~/cdac/lab6/lab3 x
File Actions Edit View Help

dbda@dbda-virtualbox:~/cdac/lab6/lab3$ sleep 1000 &
[1] 2188
dbda@dbda-virtualbox:~/cdac/lab6/lab3$ ps
  PID TTY          TIME CMD
 1739 pts/0    00:00:00 bash
 2188 pts/0    00:00:00 sleep
 2189 pts/0    00:00:00 ps
dbda@dbda-virtualbox:~/cdac/lab6/lab3$ kill 2188
dbda@dbda-virtualbox:~/cdac/lab6/lab3$ ps
  PID TTY          TIME CMD
 1739 pts/0    00:00:00 bash
 2190 pts/0    00:00:00 ps
[1]+  Terminated                  sleep 1000
dbda@dbda-virtualbox:~/cdac/lab6/lab3$ ^C
dbda@dbda-virtualbox:~/cdac/lab6/lab3$
```

6. Create 50 files `data1` to `data50` inside a directory with a single command.

Sol:

```
dbda@dbda-virtualbox:~/cdac/lab6/lab2$ touch data{1..50}
dbda@dbda-virtualbox:~/cdac/lab6/lab2$ ls
data1 data12 data15 data18 data20 data23 data26 data29 data31 data34 data37 data4
data42 data45 data48 data50 data8
data10 data13 data16 data19 data21 data24 data27 data3 data32 data35 data38
data40 data43 data46 data49 data6 data9
data11 data14 data17 data2 data22 data25 data28 data30 data33 data36 data39
data41 data44 data47 data5 data7
dbda@dbda-virtualbox:~/cdac/lab6/lab2$
```



```
Lubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

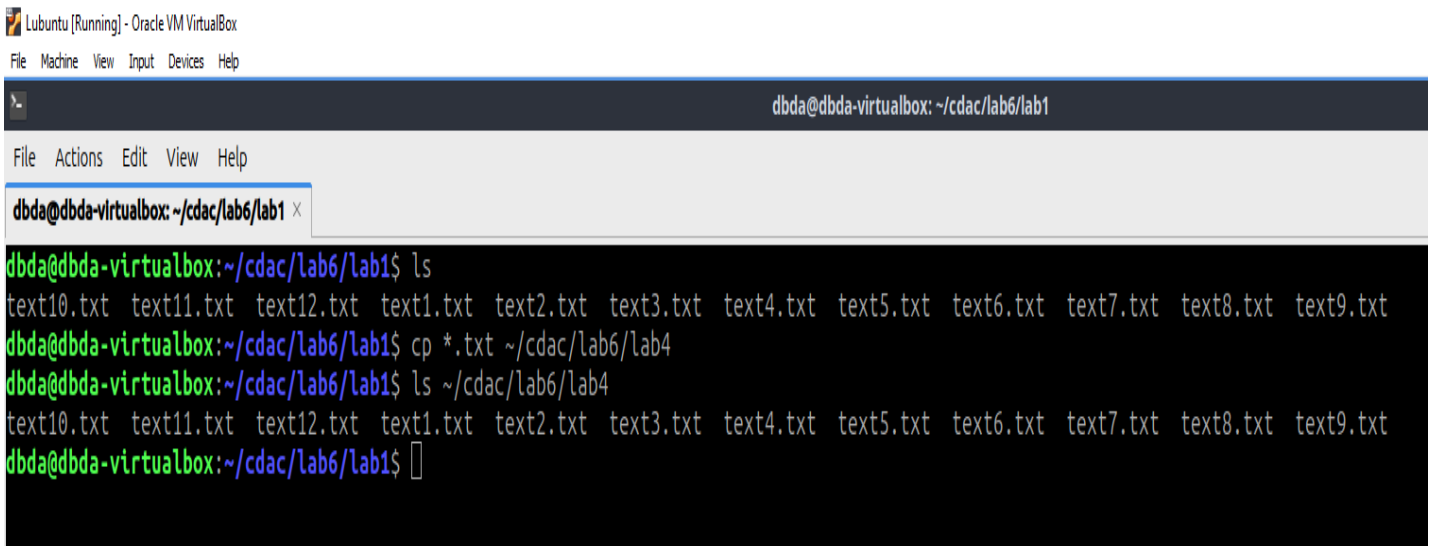
dbda@dbda-virtualbox: ~/cdac/lab6/lab2

dbda@dbda-virtualbox: ~/cdac/lab6/lab2$ touch data{1..50}
dbda@dbda-virtualbox: ~/cdac/lab6/lab2$ ls
data1  data12  data15  data18  data20  data23  data26  data29  data31  data34  data37  data4  data42  data45  data48  data50  data8
data10  data13  data16  data19  data21  data24  data27  data3  data32  data35  data38  data40  data43  data46  data49  data6  data9
data11  data14  data17  data2  data22  data25  data28  data30  data33  data36  data39  data41  data44  data47  data5  data7
dbda@dbda-virtualbox: ~/cdac/lab6/lab2$
```

7. Copy all `.txt` files from one folder to another using wildcards.

Sol:

```
dbda@dbda-virtualbox:~/cdac/lab6/lab1$ ls
text10.txt text11.txt text12.txt text1.txt text2.txt text3.txt text4.txt text5.txt text6.txt
text7.txt text8.txt text9.txt
dbda@dbda-virtualbox:~/cdac/lab6/lab1$ cp *.txt ~/cdac/lab6/lab4
dbda@dbda-virtualbox:~/cdac/lab6/lab1$ ls ~/cdac/lab6/lab4
text10.txt text11.txt text12.txt text1.txt text2.txt text3.txt text4.txt text5.txt text6.txt
text7.txt text8.txt text9.txt
dbda@dbda-virtualbox:~/cdac/lab6/lab1$
```



```
Lubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

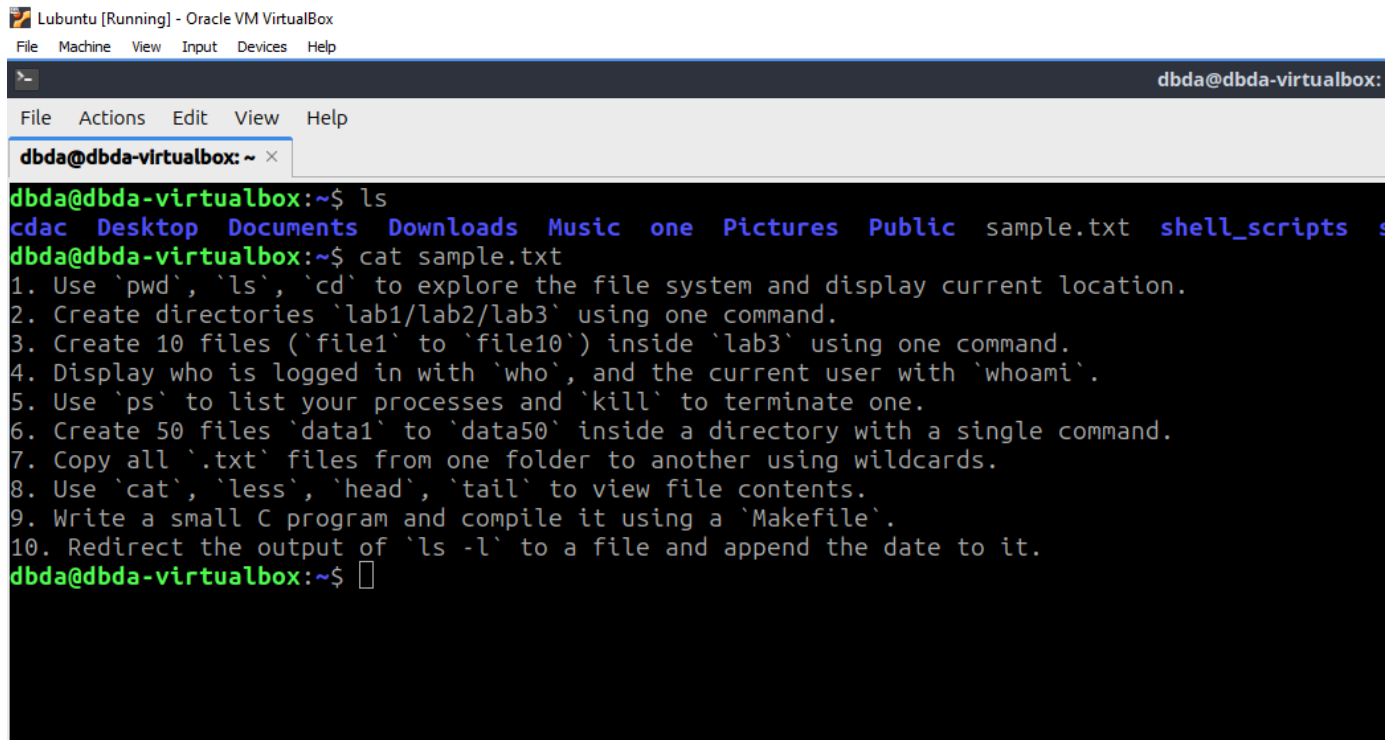
dbda@dbda-virtualbox: ~/cdac/lab6/lab1

dbda@dbda-virtualbox: ~/cdac/lab6/lab1$ ls
text10.txt text11.txt text12.txt text1.txt text2.txt text3.txt text4.txt text5.txt text6.txt text7.txt text8.txt text9.txt
dbda@dbda-virtualbox:~/cdac/lab6/lab1$ cp *.txt ~/cdac/lab6/lab4
dbda@dbda-virtualbox:~/cdac/lab6/lab1$ ls ~/cdac/lab6/lab4
text10.txt text11.txt text12.txt text1.txt text2.txt text3.txt text4.txt text5.txt text6.txt text7.txt text8.txt text9.txt
dbda@dbda-virtualbox:~/cdac/lab6/lab1$
```

8. Use `cat`, `less`, `head`, `tail` to view file contents.

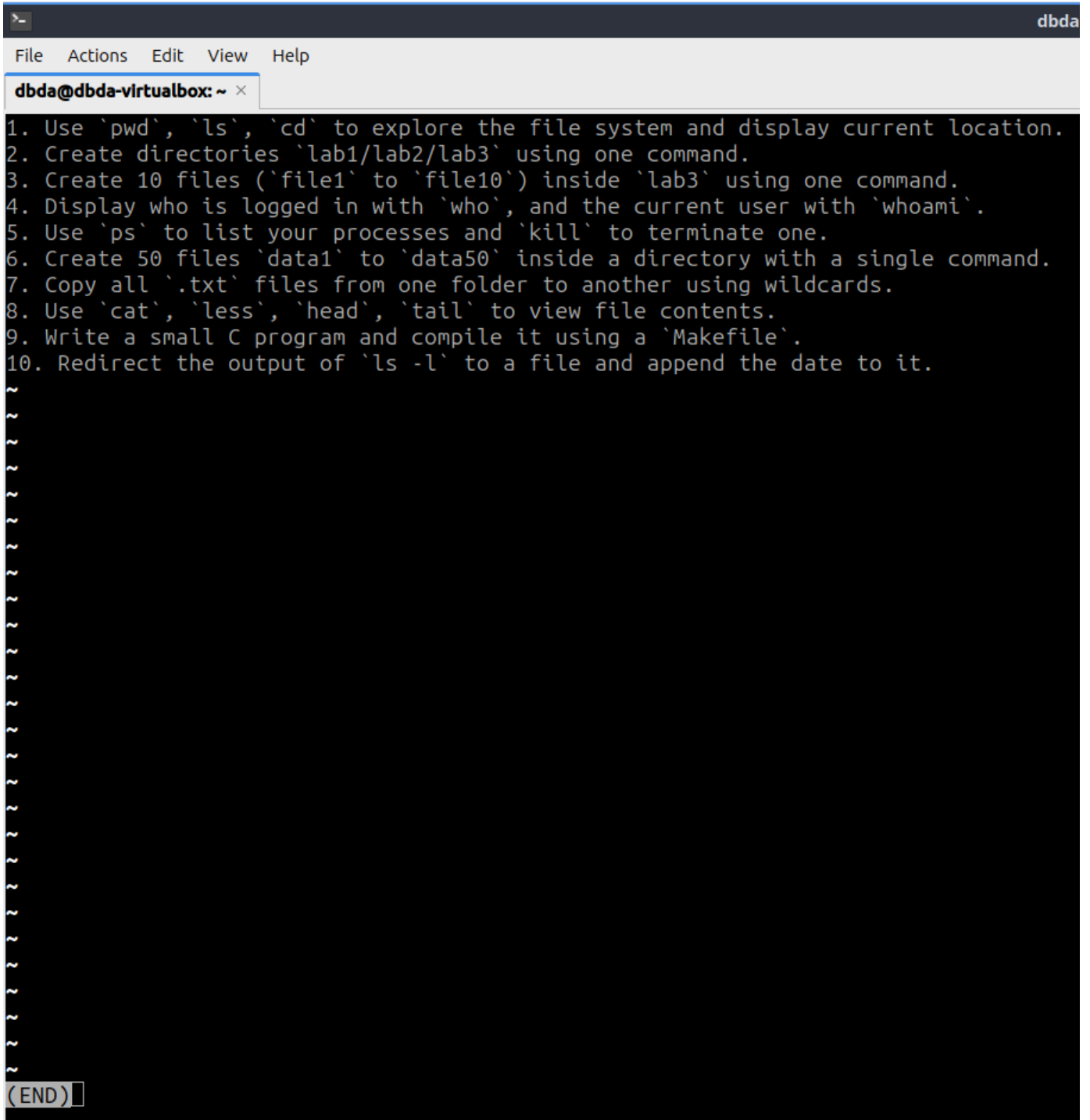
Sol:

```
dbda@dbda-virtualbox:~$ ls
cdac Desktop Documents Downloads Music one Pictures Public sample.txt
shell_scripts shel_scripts snap sorted.txt Templates Videos ystemd
dbda@dbda-virtualbox:~$ cat sample.txt
1. Use `pwd`, `ls`, `cd` to explore the file system and display current location.
2. Create directories `lab1/lab2/lab3` using one command.
3. Create 10 files (`file1` to `file10`) inside `lab3` using one command.
4. Display who is logged in with `who`, and the current user with `whoami`.
5. Use `ps` to list your processes and `kill` to terminate one.
6. Create 50 files `data1` to `data50` inside a directory with a single command.
7. Copy all `.txt` files from one folder to another using wildcards.
8. Use `cat`, `less`, `head`, `tail` to view file contents.
9. Write a small C program and compile it using a `Makefile`.
10. Redirect the output of `ls -l` to a file and append the date to it.
dbda@dbda-virtualbox:~$
```



```
Lubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
dbda@dbda-virtualbox:~
dbda@dbda-virtualbox:~$ ls
cdac Desktop Documents Downloads Music one Pictures Public sample.txt shell_scripts s
dbda@dbda-virtualbox:~$ cat sample.txt
1. Use `pwd`, `ls`, `cd` to explore the file system and display current location.
2. Create directories `lab1/lab2/lab3` using one command.
3. Create 10 files (`file1` to `file10`) inside `lab3` using one command.
4. Display who is logged in with `who`, and the current user with `whoami`.
5. Use `ps` to list your processes and `kill` to terminate one.
6. Create 50 files `data1` to `data50` inside a directory with a single command.
7. Copy all `.txt` files from one folder to another using wildcards.
8. Use `cat`, `less`, `head`, `tail` to view file contents.
9. Write a small C program and compile it using a `Makefile`.
10. Redirect the output of `ls -l` to a file and append the date to it.
dbda@dbda-virtualbox:~$
```

```
dbda@dbda-virtualbox:~$ less sample.txt
dbda@dbda-virtualbox:~$
```

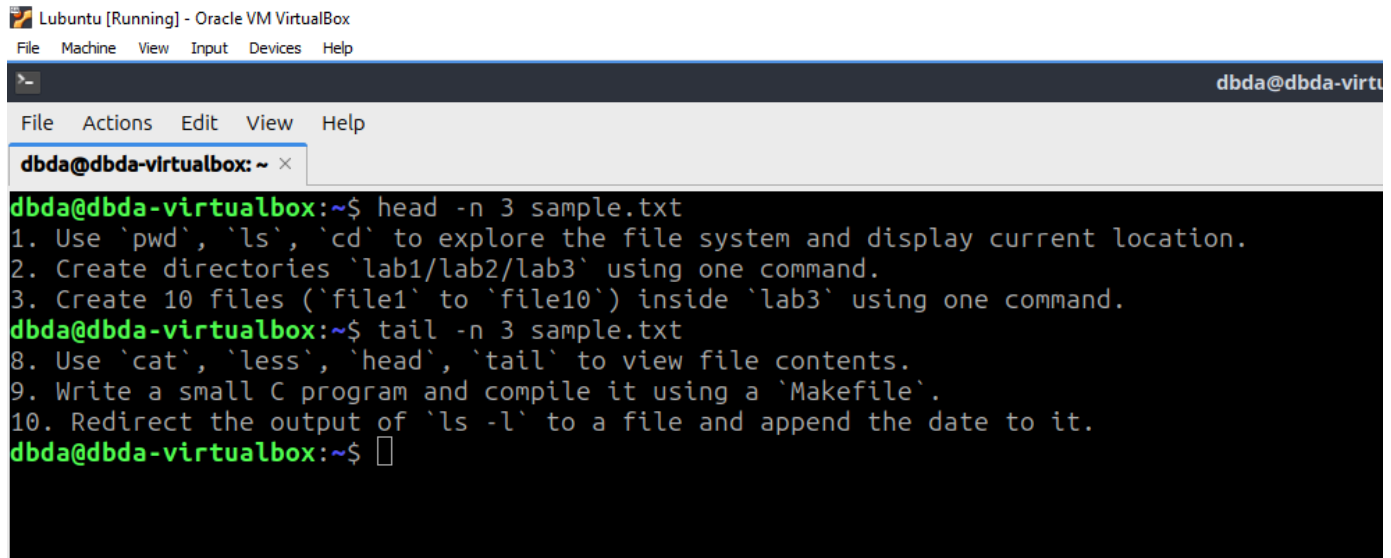


1. Use `'pwd'`, `'ls'`, `'cd'` to explore the file system and display current location.
2. Create directories `'lab1/lab2/lab3'` using one command.
3. Create 10 files (`'file1'` to `'file10'`) inside `'lab3'` using one command.

8. Use `'cat'`, `'less'`, `'head'`, `'tail'` to view file contents.

9. Write a small C program and compile it using a 'Makefile'.

10. Redirect the output of ``ls -l`` to a file and append the date to it.  
dbda@dbda-virtualbox:~\$



The screenshot shows a terminal window titled 'Lubuntu [Running] - Oracle VM VirtualBox'. The terminal displays a list of 10 tasks. The first three tasks are visible, followed by a command prompt where the user has entered `tail -n 3 sample.txt`. The output of the command shows the last three lines of the file, which are tasks 8, 9, and 10. The prompt then shows the user has entered `head -n 3 sample.txt`.

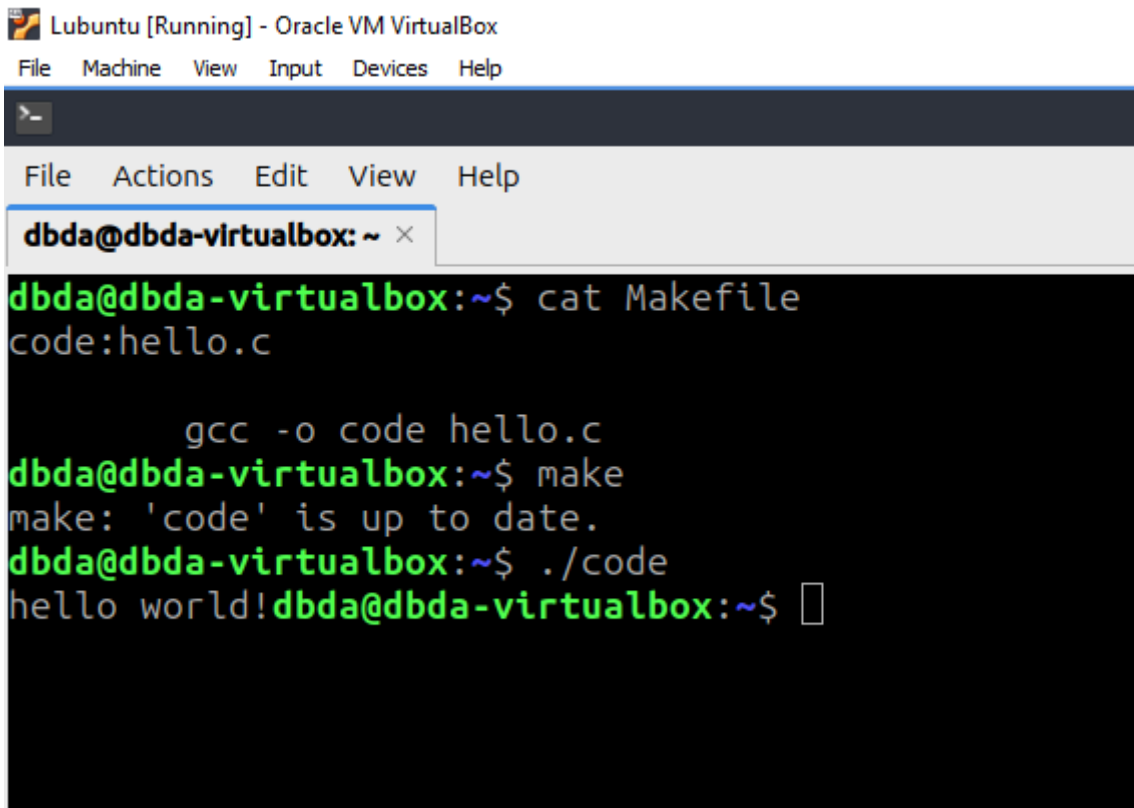
```
dbda@dbda-virtualbox:~$ head -n 3 sample.txt
1. Use `pwd`, `ls`, `cd` to explore the file system and display current location.
2. Create directories `lab1/lab2/lab3` using one command.
3. Create 10 files (`file1` to `file10`) inside `lab3` using one command.
dbda@dbda-virtualbox:~$ tail -n 3 sample.txt
8. Use `cat`, `less`, `head`, `tail` to view file contents.
9. Write a small C program and compile it using a `Makefile`.
10. Redirect the output of `ls -l` to a file and append the date to it.
dbda@dbda-virtualbox:~$
```

9. Write a small C program and compile it using a ``Makefile``.  
Sol:

```
dbda@dbda-virtualbox:~$ cat Makefile
code:hello.c
```

```
gcc -o code hello.c
dbda@dbda-virtualbox:~$ make
make: 'code' is up to date.
dbda@dbda-virtualbox:~$ ./code
hello world!dbda@dbda-virtualbox:~$
```





The screenshot shows a terminal window titled "Lubuntu [Running] - Oracle VM VirtualBox". The terminal has a menu bar with "File", "Actions", "Edit", "View", and "Help". The prompt is "dbda@dbda-virtualbox: ~". The user enters "cat Makefile", which displays the contents of the Makefile: "code:hello.c" followed by an indented "gcc -o code hello.c". The user then enters "make", which outputs "make: 'code' is up to date.". Next, the user enters "./code", which outputs "hello world!". The prompt "dbda@dbda-virtualbox:~\$" is visible at the end of the line.

```
Lubuntu [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

dbda@dbda-virtualbox: ~ x
dbda@dbda-virtualbox:~$ cat Makefile
code:hello.c


    gcc -o code hello.c
dbda@dbda-virtualbox:~$ make
make: 'code' is up to date.
dbda@dbda-virtualbox:~$ ./code
hello world!dbda@dbda-virtualbox:~$
```

9. Redirect the output of 'ls -l' to a file and append the date to it.

Sol:

```
dbda@dbda-virtualbox:~$ ls -l > detail.txt
dbda@dbda-virtualbox:~$ cat detail.txt
total 136
drwxrwxr-x 8 dbda dbda 4096 Aug 29 09:12 cdac
-rwxrwxr-x 1 dbda dbda 15960 Aug 29 10:06 code
drwxrwxr-x 2 dbda dbda 4096 Aug 29 09:09 Desktop
-rw-rw-r-- 1 dbda dbda 1021 Aug 29 10:19 details.txt
-rw-rw-r-- 1 dbda dbda 0 Aug 29 10:19 detail.txt
drwxr-xr-x 2 dbda dbda 4096 Aug 25 19:36 Documents
drwxr-xr-x 2 dbda dbda 4096 Aug 25 19:36 Downloads
-rw-rw-r-- 1 dbda dbda 69 Aug 29 09:57 hello.c
-rw-rw-r-- 1 dbda dbda 35 Aug 29 10:13 Makefile
drwxr-xr-x 2 dbda dbda 4096 Aug 25 19:36 Music
drwxrwxr-x 3 dbda dbda 4096 Aug 26 18:13 one
drwxr-xr-x 2 dbda dbda 4096 Aug 25 19:36 Pictures
drwxr-xr-x 2 dbda dbda 4096 Aug 25 19:36 Public
-rw-rw-r-- 1 dbda dbda 698 Aug 29 09:43 sample.txt
drwxrwxr-x 2 dbda dbda 4096 Aug 28 19:44 shell_scripts
drwxrwxr-x 2 dbda dbda 4096 Aug 28 17:34 shel_scripts
drwx----- 3 dbda dbda 4096 Aug 26 09:00 snap
```

```
-rw-rw-r-- 1 dbda dbda 1061 Aug 28 09:07 sorted.txt
drwxr-xr-x 2 dbda dbda 4096 Aug 25 19:36 Templates
drwxr-xr-x 2 dbda dbda 4096 Aug 25 19:36 Videos
-rw-r--r-- 1 dbda dbda 49152 Aug 26 19:35 ystemd
dbda@dbda-virtualbox:~$
```

 Lubuntu [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

File Actions Edit View Help

dbda@dbda-virtualbox: ~ x

```
dbda@dbda-virtualbox:~$ ls -l > detail.txt
dbda@dbda-virtualbox:~$ cat detail.txt
total 136
drwxrwxr-x 8 dbda dbda 4096 Aug 29 09:12 cdac
-rwxrwxr-x 1 dbda dbda 15960 Aug 29 10:06 code
drwxrwxr-x 2 dbda dbda 4096 Aug 29 09:09 Desktop
-rw-rw-r-- 1 dbda dbda 1021 Aug 29 10:19 details.txt
-rw-rw-r-- 1 dbda dbda 0 Aug 29 10:19 detail.txt
drwxr-xr-x 2 dbda dbda 4096 Aug 25 19:36 Documents
drwxr-xr-x 2 dbda dbda 4096 Aug 25 19:36 Downloads
-rw-rw-r-- 1 dbda dbda 69 Aug 29 09:57 hello.c
-rw-rw-r-- 1 dbda dbda 35 Aug 29 10:13 Makefile
drwxr-xr-x 2 dbda dbda 4096 Aug 25 19:36 Music
drwxrwxr-x 3 dbda dbda 4096 Aug 26 18:13 one
drwxr-xr-x 2 dbda dbda 4096 Aug 25 19:36 Pictures
drwxr-xr-x 2 dbda dbda 4096 Aug 25 19:36 Public
-rw-rw-r-- 1 dbda dbda 698 Aug 29 09:43 sample.txt
drwxrwxr-x 2 dbda dbda 4096 Aug 28 19:44 shell_scripts
drwxrwxr-x 2 dbda dbda 4096 Aug 28 17:34 shel_scripts
drwx----- 3 dbda dbda 4096 Aug 26 09:00 snap
-rw-rw-r-- 1 dbda dbda 1061 Aug 28 09:07 sorted.txt
drwxr-xr-x 2 dbda dbda 4096 Aug 25 19:36 Templates
drwxr-xr-x 2 dbda dbda 4096 Aug 25 19:36 Videos
-rw-r--r-- 1 dbda dbda 49152 Aug 26 19:35 ystemd
dbda@dbda-virtualbox:~$
```